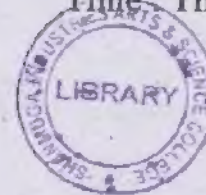


**NOVEMBER/DECEMBER 2023**

**23UFDA14/23IFDA14 — PROBLEM SOLVING  
TECHNIQUES**

**Time : Three hours**

**Maximum : 75 marks**



**SECTION A — (10 × 2 = 20 marks)**

**Answer ALL questions**

1. Define Computer.
2. What is a compiler?
3. List the Drawbacks of an Algorithm.
4. State the use of Comment Line
5. State any one Logical Operator and its Truth Table?
6. What is a Repetition structure?
7. Define a String.
8. Give Example for two Dimensional Array?
9. Define DFD.
10. What is a File?

**SECTION B — (5 × 5 = 25 marks)**

**Answer ALL questions**

11. (a) Discuss about the Generations of Computer.

**Or**

- (b) Explain the Applications of Computers

12. (a) Discuss about the Hierarchy of operations and output?

**Or**

- (b) How to document a Pseudocode and test?

13. (a) Compare relational and Logical operators with examples.

**Or**

- (b) Write a short note on Nested Loops

14. (a) What are the different types of Data available in computer.

**Or**

- (b) Give an Introduction about the Strings

15. (a) What are DFD Symbols and types?

**Or**

- (b) Explain about Recursion with an Example?

**SECTION C — (3 × 10 = 30 marks)**

**Answer any THREE questions**

16. Explain with a neat diagram about Types of Computer.

17. How flowchart work in different ways? Elaborate.

18. Explain about different Looping concepts.

19. Discuss in detail about One Dimensional Array.

20. Give an Elaborate outline about Files?